

**Claims**

1. A self hardening glass carbomer composition obtainable by treating a fluorosilicate glass powder with:
  - 5 (a) a poly(dialkylsiloxane) having terminal hydroxyl groups, wherein the alkyl groups contain 1 to 4 carbon atoms,
  - (b) an aqueous acid solution,
  - (c) separating the treated fluorosilicate glass powder from the aqueous acid solution.
- 10 2. Self hardening glass carbomer composition according to claim 1, wherein the poly(dialkylsiloxane) is linear or cyclic.
3. Self hardening glass carbomer composition according to claim 1 or claim 2, wherein the alkyl groups of the poly(dialkylsiloxane) are methyl groups.
4. Self hardening glass carbomer composition according to any one of claims 1 – 3,  
15 wherein the poly(dialkylsiloxane) has a kinematic viscosity in the range of about 1 to about 100.000 cSt at 25°C.
5. Self hardening glass carbomer composition according to any one of claims 1 – 4, wherein the particles of the fluorosilicate glass powder have an average size of about 0.5 to about 200 µm.
- 20 6. Self hardening glass carbomer composition according to any one of claims 1 – 5, wherein the aqueous acid solution comprises an inorganic acid or an organic acid.
7. Self hardening glass carbomer composition according to claim 6, wherein the organic acid is a polymer.
8. Self hardening glass carbomer composition according to any one of claims 1 – 7,  
25 wherein the aqueous acid solution has a pH in the range of 2 to 7.
9. Process for the preparation of a self hardening glass carbomer composition, wherein a fluorosilicate glass powder is treated with:
  - (a) a poly(dialkylsiloxane) having terminal hydroxyl groups, wherein the alkyl  
30 groups contain 1 to 4 carbon atoms,
  - (b) an aqueous acid solution,
  - (c) separating the treated fluorosilicate glass powder from the aqueous acid solution.

10. Use of the self hardening glass carbomer composition according to any one of claims 1 – 8 as a dental filling material, a denting bonding cement, a bone cement or a bone replacing material